

Algebra/Data Analysis Toolkit: Indicator 1.1.4

Student Handout: Algebra/Data Analysis: Indicator 1.1.4

Goal 1.0 Functions and Algebra

Expectation 1.1 The student will analyze a wide variety of patterns and functional relationships using the language of mathematics and appropriate technology.

Indicator 1.1.4 The student will describe the graph of a non-linear function and discuss its appearance in terms of the basic concepts of maxima and minima, zeros (roots), rate of change, domain and range, and continuity.

Assessment Limits:

A coordinate graph will be given with easily read coordinates.

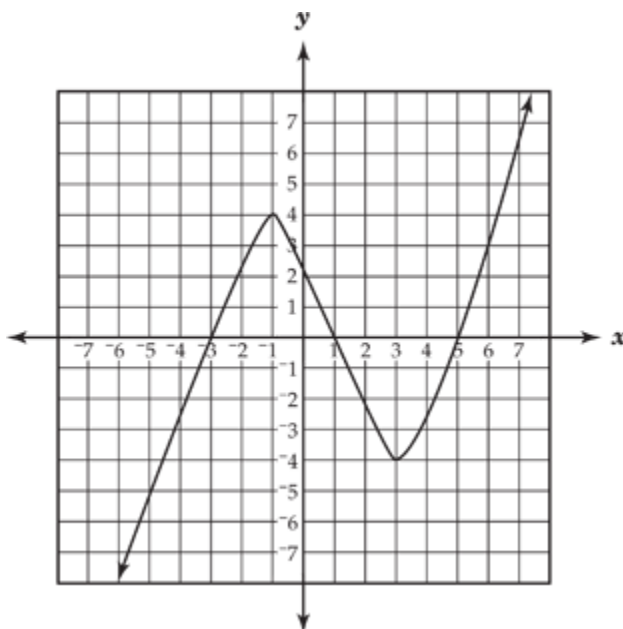
"Zeros" refers to the x-intercepts of a graph, "roots" refers to the solution of an equation in the form $p(x) = 0$.

Problems will not involve a real-world context.

Public Release - Selected Response Item - Released in 2009

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Look at the function that is graphed below.



What are the zero(s) of the function?

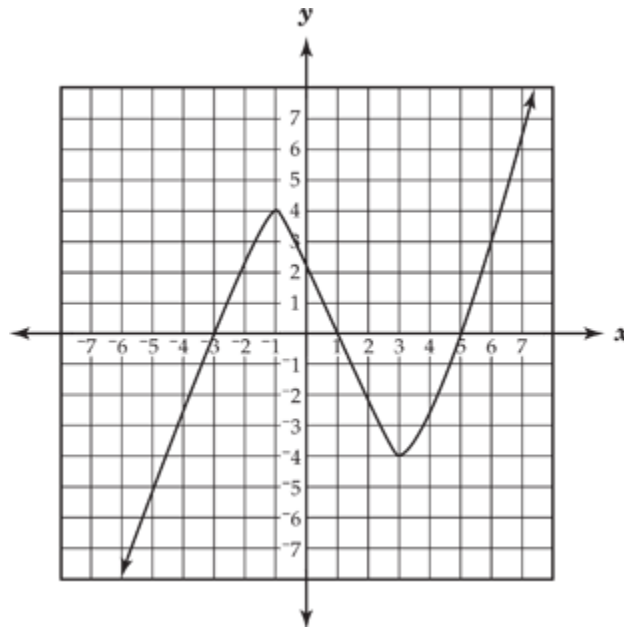
- A. 2
- B. -1, 3
- C. -4, 4
- D. -3, 1, 5

Correct Answer

D. -3, 1, 5

Item

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- D. $-3, 1, 5$